



Date: January 13, 1983

Subject: Annual Industrial Hygiene
Survey For 1982

From/Location: C. J. Kracher

To/Location: D. F. Ryan

Attached are the results of the Annual Plantwide Industrial Hygiene Survey for 1982.

Exposures on job functions and general work areas were determined primarily through personal monitoring and in some instances stationary sampling.

The following contaminants were included in the survey:

1. Particulate Polycyclic Organic Matter (PPOM).
2. Total Particulates.
3. Gaseous and Particulate Fluorides.
4. Noise.

1. Particulate Polycyclic Organic Matter (PPOM)

Exposure to hydrocarbons in the ambient potroom atmosphere continued to be low and in most instances well below the 0.20 Mg/M^3 permissible exposure. Sampling periods this year were conducted during the winter months, always considered to be a time of most adverse potroom conditions because of rooms sealed off and ventilation reduced. The new Pierce briquette truck, average exposure of 0.09 Mg/M^3 , shows a marked improvement over the Big Joe truck with 0.19 Mg/M^3 . High exposure areas are still jack slippers at 0.69 Mg/M^3 , basement crew at 0.96 Mg/M^3 , and pin pullers at 0.56 Mg/M^3 .

2. Total Particulates

The average of the eight rooms monitored, 3.1 Mg/M^3 , shows remarkable comparison to last years 3.0 Mg/M^3 . These concentrations represent the lowest room exposures to total particulates recorded to date. With the TLV at 10 Mg/M^3 , there are areas of the survey that do generate concern, namely, abrading and chipping with 10.5 Mg/M^3 average, jack slippers at 22.4 Mg/M^3 , and basement crew with the extremely high 46.5 Mg/M^3 .

3. Gaseous and Particulate Fluorides

Fluoride exposures continue to be low in all locations of the survey with one exception, the pole shed. During screening of basement sweepings this job has an average fluoride exposure of 3.3 Mg/M^3 . (TLV is 2.5 Mg/M^3 .) Corrective measures to protect the worker are being considered.

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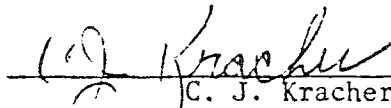
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4. Noise

The noise data presented represents exposures obtained with our modified noise dosimeters as specified by last years hearing conservation amendment. Because the dosimeters are now more sensitive to noise, the amount of noise that previously recorded 50% of permitted exposure now indicates 100% after modification, therefore, interpretation of the results is still based upon 100% allowable exposure. This is the "action level" for participation in the noise program.


C. J. Kracher

Attachment

mc: R. A. Sneddon
L. W. Smith